Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	$\int Sec^2 (ax + b)\, dx$ is equal to:	A. tan² (ax + b) B. 1/a tan² (ax + b) C. 1/atan (ax +b) D. tan (ax + b)
3	The line y =mx +1 is tangent to the parabola y2 =4x if	A. m=1 B. m=2 C. m=3 D. m=4
4	The st. lines whose direction cosines satisfy al + bm + cn = 0, fmn + gnl + hlm=0 are perpendicular if	
5	The line through the intersection of the lines x+ 2y+ 3= 0 : 3x +4y +7 =0 and making equal intercepts on the axes is	A. x+ y+ 1= 0 B. x+ y- 2= 0 C. x+ y+ 2= 0 D. 2x +y +2 =0
6	the curve of the parabola $y^2 = -4ax$ is symmetric with respect to	A. x -axis B. y - axis C. Botha x and y- axis D. None of thes
7	A polynomial of arbitrary degree	A. f(x) = o B. f(x) = x C. f(x) = a D. f(x) = ax + b,a ≠ 0
8	Question Image	
9	Question Image	
10	Write the first four terms of the sequence if $a_n = (-1)^n n^2$	A. -1, 4, -9, 16 B. 1, -4, 9, 16 C. 1, 4, 9, 16 D. None of these
11	Question Image	A. a sin(ax + b) + c B. - a sin(ax + b) + c
12	The coefficient of the second term of $(a+b)^4$ is	A. 1 B. 9 C. 3 D. 5
13	an -an-1, $\forall n \in N \wedge n>1$ in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
14	The condition for polynomial equation ax2 + bx + c = 0 to be quadratic is	A. a > 0 B. a < 0 C. a≠ 0 D. a≠ 0,b ≠ 0
15	Question Image	D. none of these
16	Question Image	
17	An infinite sequence has no	A. nth term B. Last term C. Sum D. None of these
18	If n is any positive integer then $2^n > 2(n + 1)$ is true for all	
19	If Sn is a definite number as $n \to \infty$,then the geometric series is	A. Convergent B. Divergent C. Oscillatroy D. None of these
20	If n is any positive integer then $n! > 2^{n-1}$for	

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